TKW19S GPS Tracker for personal

（GPS+GSM+SMS/GPRS）

User Manual

Version 1.6

In order to install correctly and operate quickly, please read this manual carefully before attempting installation and online activation. Pictures are for indication and illustration purposes only, please see the appearance and color in kind prevail.

I. Functional Picture

LED Screen Icon Instructions:

G19 Display Screen Icon Instructions	
Icon	**Instructions**
	GPS mould opened,but didn’t get gps signal
	GPS mould opened also get gps signal well
	GSM signal strength volume
	No GSM sim card
	Battery volume
	Battery in charging under working status
	Battery in charging under off-working status
	Battery fully
SOS	Status of SOS

II. Product Features

- Personal gps tracker,e.g.:mountain-climbing,detective work, person(the old and children) guardian
- Worldwide use (GSM frequencies:850/900/1800/1900MHz)
- GPS chip: MTK
- 24 hours real-time tracking
- Both SMS tracking and web tracking available
- Inbuilt antenna
- Remote Control
- Geo fence
- Inbuilt GPS Module
- Supports fast dial button
- One dail, two ways communication
- SOS button
- Voice monitoring,Built-in speaker and microphone
- Removable and rechargeable internal battery

III. Product Appearance

TKW19S

IV. Product Specifications

GSM module	GSM 850/900/1800/1900 MHz Quad frequency
GPS sensitivity	-163dBm
GPS center frequency	L1, 1575.42MHz
GPS positioning accuracy	5-25m
GSM positioning accuracy	100-500m
Speed accuracy	0.1 m/s
Time accuracy	Synchronous with GPS
GPS Datum	WGS-84
Hot start	< 1s
Warm start	< 38s
Max. altitude	18000m
Max. speed	515m/s
Gravitational acceleration	< 4g

(2). Others

Operating temperature	-30---75℃
Humidity	5%---95%
Dimensions	48mm×38mm×16 mm
Voltage	Rechargeable 450mAh battery
Power supply	DC5V
Standby time	>72h
Buttons	SOS button for emergency aid.

V. Installation Instructions

6.1 The preparing work before installation

6.1.1 Please check whether the model is right and hardware accessories are complete when you received the product. If not, please contact your dealer as soon as possible.

6.1.2 Choosing the type of the SIM card is GSM card, Please refer to the distributor's advice.

Note：

Please use SIM card with GSM network;

Please turn off the device before insert or take out the SIM card;

Please make sure that the terminal SIM card has opened GPRS function;
Please make sure that the terminal SIM card need to open the caller id function.

VI. Message Setup

All the following function command need setup by lowercase. And every command has reply. If the parametric command setup is right, it will reply message: “set successfully”. If not, need setup again. If send query command, your mobile phone will reply corresponding information.

7.1 Center Number Setup

You need setup center NO. first, if you need check monitor or other operations by message. The device only accept message command sent from center NO., so you can setup center NO. by your phone NO.. In order to ensure the safe using, the setup needs password, so the initial passwords is “123456”. Password can be changed.

Format: pw,123456,center,your phone NO.# (Note: No space in any words.)

Example: pw,123456,center,13524258458#

If the setup is successful, there will be a reply “Center number set successfully!”
Remark: Only 1 center NO. is allowed.

7.2 APN Setup

Create the SMS “APN,APN name,,#” and send it to the terminal; after executing this command, the terminal will automatically start and connect to GPRS with APN set.

Format: APN,APN name,,# (No space between “,”).

Example: apn,cmwap, ,# (“cmwap” is the apn name for China mobile)

If the setup is successful, there will be a reply “APN set successfully!”

7.3 Server connection setting

Command: ip,***.***.***.***,port,****#
Example: ip,59.188.20.67 ,port,7018#
If the command is set successful, the device will reply “IP and port Settings OK”

7.4 Changing Password

The initial password of user name is “123456” and you can also change it. The password need be 6 words. The command as below:

Format: pw,123456#
Example: pw,888888#

If the setup is successful, the setting mobile phone will receive message “Password set successfully! PW:888888.”

7.5 Presetting call number setup

Setup presetting call number by sending the command in form of SMS through center number. The number only can use mobile number.
Format : f1,mobile number#
Example : f1,13567832209#

7.6 SOS call number setup

Setup SOS call number by sending the command in form of SMS through center mobile phone NO. to the terminal.
Can set three SOS number, Command:
sos1,11111111111#
sos2,22222222222#
sos3,33333333333#
Example: sos1,13412345678#
If the setting is successful, then reply "SOS set success!".

7.7 Cancel SOS call number

If you want to cancel SOS call number and don't remember the serial number you set before, you can send query parameter condition message first to get the corresponding serial number. Secondly, you send cancel SOS call number to the device. command in form of SMS through center mobile phone NO. to the terminal.

Format: sos1 #
sos2 #
sos3 #

If the setup is successful, there will be a reply "SOS number delete successfully!".

7.8 Inquire parameter setting

Command: test#
Example: test #
Reply Message:
ver:TQ-v0.1-2013/07/04-22:51;ID:7893267561;ip:219.142.106.193;port:8500;center:13640927062;slave:13682431464;upload:65535s;work mode:1;bat level:3;GPS:OK(7);GPRS:OK(100);LED:OFF;
ver: firmware version
ID: 7893267561– device ID Number
ip: 219.142.106.193, PORT:8500 -- Server IP and port
center: Center number
slave: Slave center number
upload: GPRS Data upload interval
workmode: working mode

7.9 Work mode setup

Command: m1,20# or m2, 600# or m3,20# or m4#
The default working mode is mode 1,
m1,20#: mode 1, GSM and GSP always working, every 20 seconds send GPS data to server. (Range:

10~65535S, default 60S)
m2, 600#: mode 2, power saving mode, every 600 seconds turn on GPS, and send GPS data to server once, then enter sleep. (Range: 300~65535S)
m3,20#: mode 3, GPS not work, every 20 seconds send GSM's cell ID to server, some commands can wakeup GPS once. (Range: 10~65535S)
m4#: mode 4, no server, always sleeps, only wakeup by SMS or call, can get google map link by SMS.

7.10 Language and time zone setting

The device provide two kinds of language, Chinese and the English. The different areas use different time zone setting.
Command: lang,x,zone,n#
Language options x: 0 is English, 1 is Chinese, the default language x=1.
Time zone n: East eight area for 8, west three areas for -3, the default time zone n=+8.

7.11 Restart the device

When the GPRS cannot link normally, such as that all setup is successful, but the device still not on line, you can send message to the device. The device will restart and then the device can work as usual.

Format: reset#

If the setup is successful, the device will restart after 1min and no reply.

7.12 Restore factory setup

When sending incorrect command cause the device can't work as normal, you can setup restore factory message to the device.

Format: factory#

If the setup is successful, the device will restore to be the default.

VII .Operating the device

8.1 Power on/ off

Power on: Put effective SIM card in to the device, and turn on the power, the power light will on and blink. After the power is on, the device will begin to search the GSM network signal. At this time, the light will brighten 1s and darken 2s. When the GPS is successful positioning, the light will brighten 1s and darken 2s.

Power off: Press power off button when the device is power on. The device can work as normal as long as the SIM card is effective and has GPRS function. The device will send data to the backend server timing.

8.2 Address tracking

8.2.1 Address tracking by message

Format: where#

If the setup is successful, the device will reply you a address. If not it will reply “Unable to get GPS data correctly, please try again! !”
Remark: This function need supported by platform.

8.2.2 Address tracking by web link

Format: url#

If your mobile phone has GPRS, WIFI or 3G function, you can open the web link and you will see the tracked address by map. And you can also write down the link on your computer, then you will get the address.

8.2.3 Real time tracking on platform

You can login the GPS tracking platform to look the position.

8.3 SOS button

In case of emergency, please press SOS button, and the device will call the there SOS NO. you have set in sequence. If no one answer SOS call, the device will stop call after twice.

Notice: The SOS alarm can only call the phone NO. you have setup.

8.4 Monitoring voice number setting

When you call the device by the set mobile phone NO., the device will start monitor automatic.
The caller will hear the voice from the device.

When the calls are not from the set phone NO., the device can’t be in the monitoring state.

Format: monitor,00000000000#

If the setup is successful, the device will reply you “Montior number set successfully!”

Note: 1. Before you using this function, you need setup mobile phone NO. for monitoring first.
2. The SIM card put in the device need has call screening function

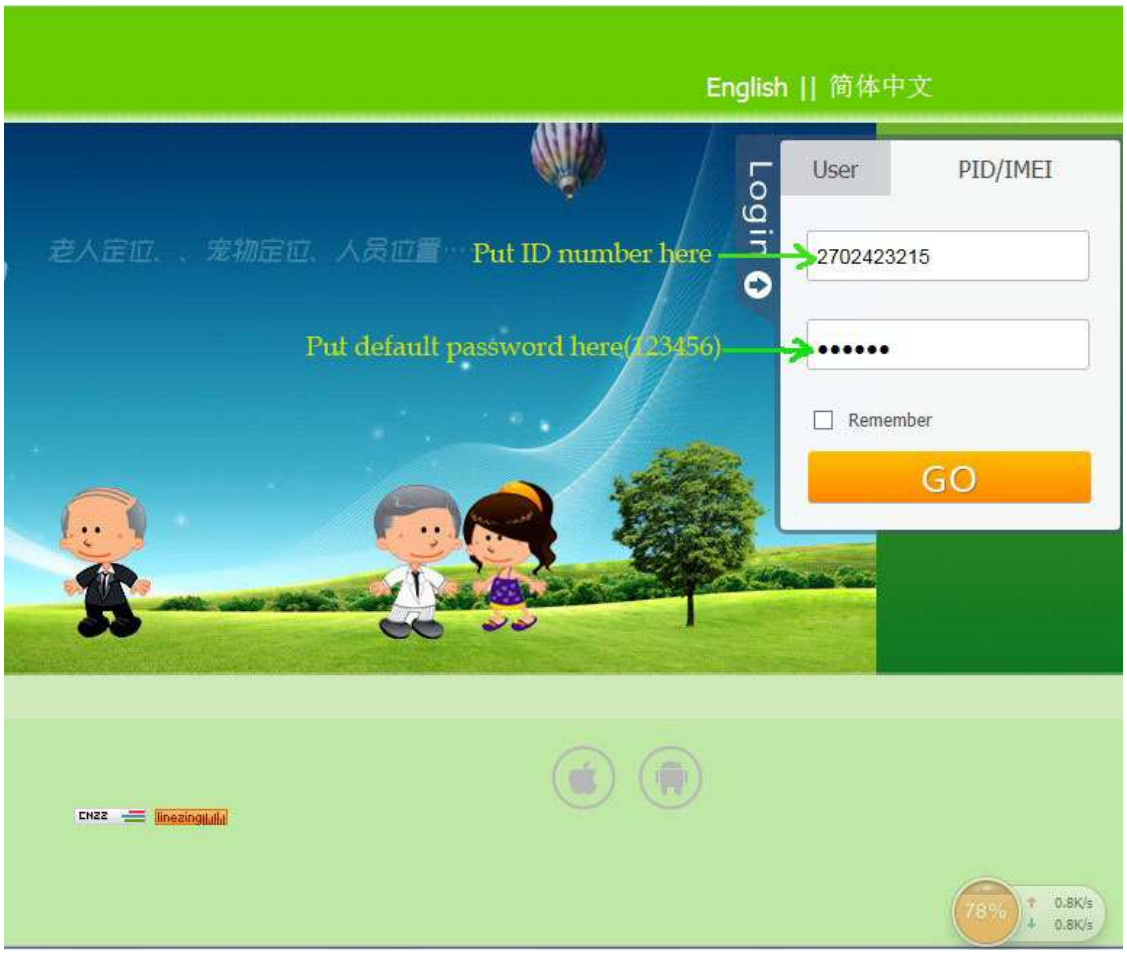
IX .Login GPS service platform

Platform website: http://www.track188.com/?locale=en&back=true

If you already have your account information to login the platform, you can go into the back-end server directly.

Otherwise, please contact your provider to give you the account and password. When you login the platform website, please input the account and the password, then you can see the online tracking information.

1..singal unit login:



2.Management account Login:

Ⅹ.Troubleshooting

1. If the device couldn't be on line in the tracking platform after you keep the power on, please check the problems as below:

1) Please according to the specification to check whether the SIM card is installed correctly.

2) Please make sure the LED indicator light condition is right. When it is functioning normally, the GSM indicator lighting-on time is 0.1S, and on GPS indicator lighting-off time is 2S.

3) Please check whether the GPS has been located in the platform. If not, please put the device in outside with good signal reception.

2. If the device is showing off line on the platform, please check the problems as below:

1) Check LED indicator light condition is right.

2) Whether the charge of SIM card is overdue.

3) Whether SIM card open GPRS function.

4) Query the parameter Setting. Check serial number of the equipment, and the interval of GPRS upload time is correct.

Comparision List of GPS Watch Tracker commands (Model: LDW-TKW19G/19M)

Note:

1, All commands as below are by SMS. (default device password: 123456)

2, All the commands letter in lower case format.

3, All the setting or checking commands will be replied with related content by SMS.

4, If successful, it will reply: Set successfully! If not you need to re-set it.

Settings as below:

		Commands	**Example**
1	Service Center Number	**pw,device password,center,number#**	**pw,123456,center, 18688751382#**
2	Slave Center Number	**pw,device password,slave,numbers#**	**pw,123456,slave, 18688751392#**
3	Delete Center Number	**1.pw,device password,center,d#** **2.pw,device password,slave,d#**	**pw,123456,center, d#**
4	SOS Number Setting	**1.sos1,numbers#** **2.sos2,numbers#** **3.sos3,numbers#**	**1.sos1, 18688751382#** **2.sos2, 18688751392#** **3.sos3,13800138000#**
5	Delete SOS Number	**1.sos1#** **2.sos2#** **3.sos3#**	**1.sos1#** **2.sos2#** **3.sos3#**
6	APN Setting	**apn**,apn name,,,#	1.apn,**cmnet**,,,# apn,**cmnet**
7	Server Setting	**ip,IP Adress,port,Port Number#**	**ip,124.232.150.158,port,9500#**
8	Work Mode Setting	1: m1,t# (GPS has been working) 2: m2,t# (Power Saving Mode)	**1. m1,20#** **2. m2,600#**

		3: m3,t# (LBS Mode) 4, m4# (Disable GPRS Mode) (”t” GPRS upload time interval)	**3. m3,120#** **4. m4#**
9	Reboot Device	**reset**#	**reset#**
10	Modify User Password	**pw,New Password(6 digits)#**	**pw,888888#**
11	GPRS upload time interval setting	**upload**,t# **15<t<65535**	**upload,300#**
12	Back to Factory setting	**factory#**	**factory#**
13	Language and time zone setting	**langx**,**zone**,**n**# (x=0,is English;x=1,is Chinese; ”n”is time zone Western Time Zone=-n Eastern Time Zone=+n	**1.lang0,zone,-3#** **2.lang1,zone,+8#**
14	Monitor Number Setting	**monitor,numbers#** **(**When the set number, dial in, can be monitored)	**monitor,13800138000#** Note: 1, Need to set the monitor NO. in advance. 2,Terminal Sim card need to open Dialer-Identification function at first.
Checking			
15	Location checking (Get Google Map link)	**url#**	**url#** Feedback: location:Course:000,Speed:000.00,2013-09-30 02:58:21, http://maps.google.com/maps?q=N22.540062,E114.077652
16	Address tracking	**Where#**	The device will reply you a address,if not will reply you”unable to get GPS data correctly, pls try again!” This function need support by platform
17	Check parameter	**test#**	Feedback: id:1308080030 ip:124.232.150.158 port:9500 AGPS:9 GPS:3 GPS fixed:0 GSM singal:100 battery:0 GPRS:1

18	Hardware remotely upgrade	upgrade,address#	Note: Address means download the upgrading file address. Please consult the downloading address from your dealer!